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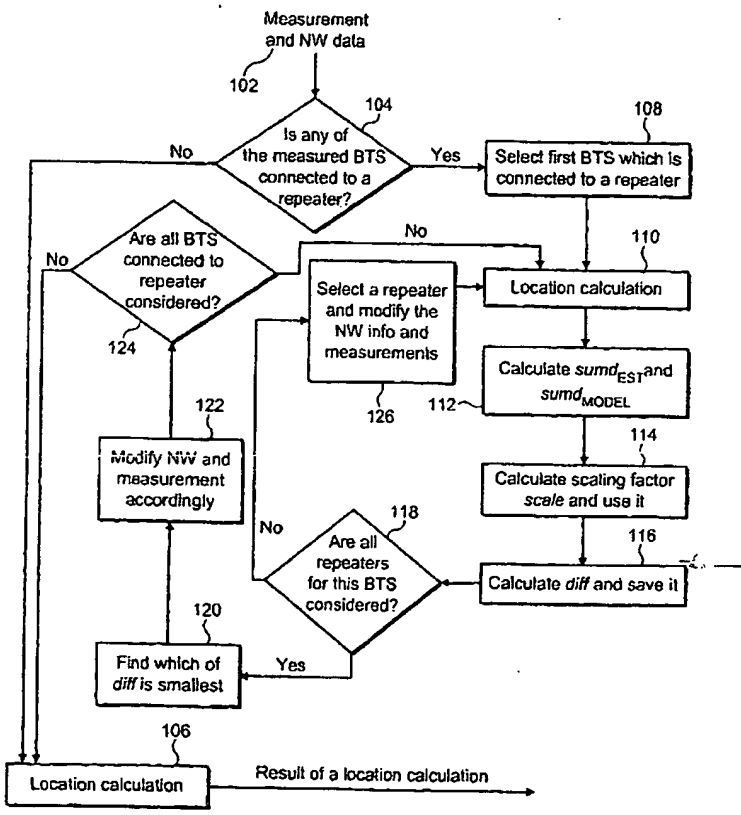
(54) Title: SIGNAL PATH DETECTION FOR WIRELESS NETWORKS INCLUDING REPEATERS



(57) **Abstract:** There is disclosed a method of determining the path of a signal between a donor network element and a remote station, the donor network element being associated with at least one repeater, comprising the steps of: receiving at the remote station a plurality of signals associated with a plurality of network elements; calculating an estimate of the distance between the remote station and each network element, including an estimate of the distance between the remote station and each repeater associated with the donor network element; determining the one of said estimates of the distance between the donor network element and at least one , associated repeater and remote station which most closely approximates to the distance between the other network elements and the remote station; and selecting that donor network element/repeater to be the source of the signal.

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